

Water-Data Report 2008

**01396091 SOUTH BRANCH RARITAN RIVER AT ROUTE 46, AT BUDD LAKE, NJ**

RARITAN RIVER BASIN

LOCATION.--Lat 40°51'34", long 74°45'39" referenced to North American Datum of 1983, Mount Olive Township, Morris County, NJ, Hydrologic Unit 02030105, on upstream right wingwall of bridge on US Route 46 in town of Budd Lake, 300 ft west of Wolfe Road, 0.6 mi west of Budd Lake, and 5.0 mi east of Hackettstown.

DRAINAGE AREA.--4.98 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 2008 to current year.

GAGE.--Water-stage and depth of hole recorder (fathometer, for NJ DOT bridge scour monitoring) and crest-stage gages. Datum of gage is 940 ft NAVD of 1988 (from topographic map).

REMARKS.--Records fair. Several measurements of water temperature were made during the water year. Flow occasionally regulated by Budd Lake. Satellite gage-height telemetry at station.

## 01396091 SOUTH BRANCH RARITAN RIVER AT ROUTE 46, AT BUDD LAKE, NJ—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	6.8	3.3	2.9	1.4
2	---	---	---	---	---	---	---	---	6.2	3.1	2.8	1.4
3	---	---	---	---	---	---	---	---	5.8	3.1	2.7	1.4
4	---	---	---	---	---	---	---	---	8.6	3.5	2.7	1.3
5	---	---	---	---	---	---	---	---	8.5	4.7	2.7	1.3
6	---	---	---	---	---	---	---	---	7.3	4.2	2.7	2.7
7	---	---	---	---	---	---	---	---	6.9	3.8	2.7	3.5
8	---	---	---	---	---	---	---	---	6.8	3.5	2.6	3.2
9	---	---	---	---	---	---	---	---	6.6	3.2	2.6	4.4
10	---	---	---	---	---	---	---	---	5.7	3.0	2.5	4.7
11	---	---	---	---	---	---	---	---	5.9	2.8	2.6	3.8
12	---	---	---	---	---	---	---	---	5.3	2.8	2.7	3.6
13	---	---	---	---	---	---	---	---	4.7	2.7	2.5	3.7
14	---	---	---	---	---	---	---	---	4.5	3.0	2.5	3.5
15	---	---	---	---	---	---	---	---	4.6	2.8	2.5	3.3
16	---	---	---	---	---	---	---	---	4.6	2.8	2.3	3.1
17	---	---	---	---	---	---	---	---	5.3	2.7	2.1	2.8
18	---	---	---	---	---	---	---	---	4.6	2.6	2.1	2.8
19	---	---	---	---	---	---	---	---	4.4	2.5	2.0	2.5
20	---	---	---	---	---	---	---	---	4.1	2.4	1.9	2.4
21	---	---	---	---	---	---	---	---	4.3	2.2	1.8	2.3
22	---	---	---	---	---	---	---	---	3.9	2.2	1.8	2.3
23	---	---	---	---	---	---	---	---	3.8	2.4	1.7	2.1
24	---	---	---	---	---	---	---	---	3.8	3.7	1.7	2.1
25	---	---	---	---	---	---	---	---	3.7	3.5	1.7	2.2
26	---	---	---	---	---	---	---	---	3.6	3.3	1.7	2.8
27	---	---	---	---	---	---	---	---	3.5	3.4	1.8	2.7
28	---	---	---	---	---	---	---	---	3.5	3.3	1.4	2.8
29	---	---	---	---	---	---	---	---	3.5	3.2	1.4	3.0
30	---	---	---	---	---	---	---	---	3.3	3.1	1.5	2.6
31	---	---	---	---	---	---	---	---	---	3.0	1.4	---
Total	---	---	---	---	---	---	---	---	154.1	95.8	68.0	81.7
Mean	---	---	---	---	---	---	---	---	5.14	3.09	2.19	2.72
Max	---	---	---	---	---	---	---	---	8.6	4.7	2.9	4.7
Min	---	---	---	---	---	---	---	---	3.3	2.2	1.4	1.3

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	---	---	---	5.14	3.09	2.19	2.72
Max	---	---	---	---	---	---	---	---	5.14	3.09	2.19	2.72
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(2008)	(2008)	(2008)	(2008)
Min	---	---	---	---	---	---	---	---	5.14	3.09	2.19	2.72
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(2008)	(2008)	(2008)	(2008)

## 01396091 SOUTH BRANCH RARITAN RIVER AT ROUTE 46, AT BUDD LAKE, NJ—Continued

## SUMMARY STATISTICS

	Jun 1 – Sep 30, 2008	
Highest daily mean	8.6	Jun 4
Lowest daily mean	1.3	Sep 4, 5
Maximum peak flow	13	Jun 4
Maximum peak stage	5.33	Jun 4
Instantaneous low flow	1.2	Aug 29, Sep 5

